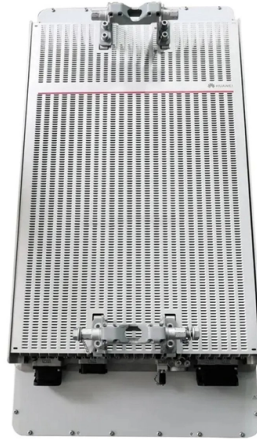


Dimensions of a 7-Channel Circuit Breaker Distribution Box



Article Overview

A typical 7-channel distribution box is designed to accommodate seven standard 18mm MCBs, resulting in an approximate width of 126mm, with height and depth varying by manufacturer, usually around 250-300mm high and 100-120mm deep.

Width Calculation

Most standard MCBs are 18mm wide per pole. For a 7-channel single-pole setup, the total width is calculated as: $7 \times 18\text{mm} = 126\text{mm}$. If RCBOs or higher-current MCBs are used, the width per module may increase to 27mm, which would make the total width 189mm .

Height and Depth

The height of a 7-way distribution box typically ranges from 250mm to 300mm, depending on the enclosure design and space for neutral and earth bars, wiring, and accessories. The depth is usually 100-120mm, allowing sufficient room for cable entry, internal wiring, and safe spacing between live parts .

Internal Layout Considerations

- Neutral and Earth Bars: Must be positioned to allow easy connection of all circuits.
- DIN Rail Space: Standard 7-way boxes include a DIN rail long enough to mount all breakers with proper spacing....

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